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(54) Title: **ADENOVIRUS PROTEIN IX, ITS DOMAINS INVOLVED IN CAPSID ASSEMBLY, TRANSCRIPTIONAL ACTIV-
ITY AND NUCLEAR REORGANIZATION**

(57) Abstract: Described are adenovirus pIX proteins which are modified by mutating one or more amino acids and/or by the inclusion of a binding moiety. Preferably, said modification is carried out in the N-terminal part or in the C-terminal leucine-repeat of the pIX protein. It is described that viruses or virus-like particles containing such a modified pIX protein show an improved gene delivery efficiency. Furthermore, described are corresponding adenoviral vectors, viruses or virus-like particles, host cells, complementation cell lines and methods for producing such viruses or virus-like particles. In addition, described are pharmaceutical compositions comprising an adenoviral vector, virus or virus-like particle, host cell or complementation cell line as mentioned above and therapeutical applications thereof.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, SEQUENCE SEARCH, MEDLINE, EMBASE

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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